

# Panasonic

## Digital Cordless Phone

### Operating Instructions

Model No. **KX-TCD410NZ**

Preparation

Cordless Telephone

Useful Information

## Contents

### Preparation

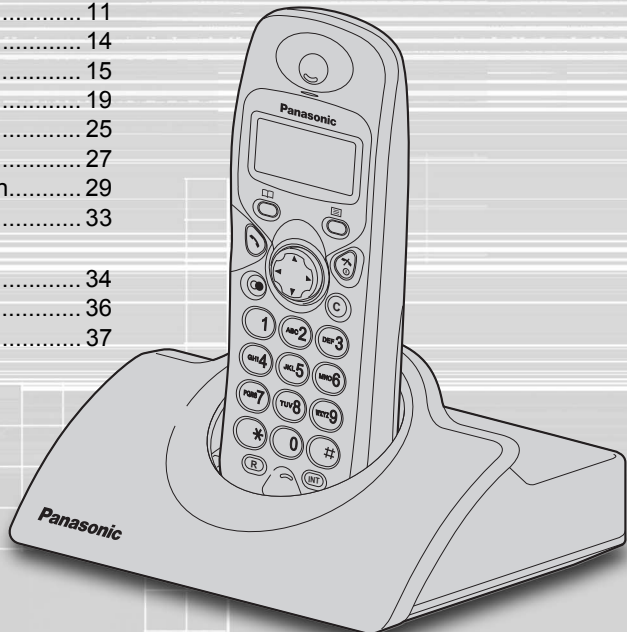
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Caller ID Compatible

**PLEASE READ BEFORE USE AND SAVE.**

**Charge the battery for about 7 hours before initial use.**



# Before Initial Use

***Thank you for purchasing your new Panasonic digital cordless telephone.***

Dear purchaser,

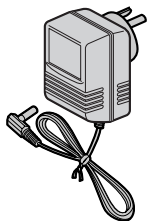
You have acquired a KX-TCD410NZ, which is a product made in regard with the European Standards for Cordless Telephones (DECT). DECT technology is characterized by high-security protection against interceptions as well as high-quality digital transmission. This telephone was designed for a wide range of applications. For example, this telephone can be used within a network of base units and handsets, constituting a telephone system which:

- operates up to 6 handsets at one base unit.
- allows an intercom between 2 handsets.
- allows the operation of a handset at up to 4 base units, expanding the communication radio area.

Caller ID Service, where available, is a telephone company service. After subscribing to Caller ID, this phone will display the caller's phone number.

## Accessories (included)

☐ AC Adaptor  
PQLV19AL



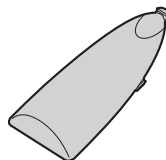
☐ Telephone Line  
Cord



☐ Rechargeable  
Batteries  
(AAA size)  
HHR-4EPT/BA2  
(HHR-4EPT)



☐ Battery Cover



Additional accessories are available for purchase. Contact your Panasonic Service Centre for further details.

## General Warning:

The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.



Only use the power supply included with the product.

Do not connect the AC Adaptor to any AC outlet other than the standard AC230V.

The apparatus is approved for use with PQLV19AL power supply.

This apparatus is unable to make emergency telephone calls under the following conditions:

- The portable handset batteries need recharging, or have failed.
- During a mains power failure.
- When the Key Lock is set to ON.
- When the unit is in Direct Call mode.

Do not open the base unit or handset (other than to change the batteries).

This apparatus should not be used near emergency/intensive care medical equipment and should not be used by people with pacemakers.

Care should be taken that objects do not fall onto, and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration or shock.

## Environment

Do not use this unit near water.

This unit should be kept away from heat sources such as radiators, cookers, etc. It should also not be placed in rooms where the temperature is less than 5°C or greater than 40°C.

The AC Adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is accessible.

### WARNING:

TO PREVENT THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY OTHER TYPE OF MOISTURE.

## Battery Caution

Use only specified batteries.

**Only use rechargeable batteries.**

Do not mix old and new batteries.

Do not dispose of batteries in a fire, they may explode.

Check local waste management codes for special disposal instructions.

Do not open or mutilate the batteries.

Released electrolyte is corrosive and may cause burns or injury to the eyes or skin.

The electrolyte may be toxic if swallowed.

Exercise care in handling the batteries in order not to short the batteries with conductive materials such as rings, bracelets and keys.

The batteries and/or conductor may overheat and cause burns.

Charge the batteries provided in accordance with the information given in this operating guide.

## Location

- For maximum distance noise-free operation, place your base unit:
  - Away from electrical appliances such as TV, radio, personal computer or another phone.
  - In a convenient high and central location.

## Safety Caution

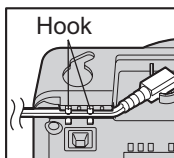
The ringer tone is reproduced through the earpiece. To avoid damage to hearing, first answer the call, then hold the phone to the ear.



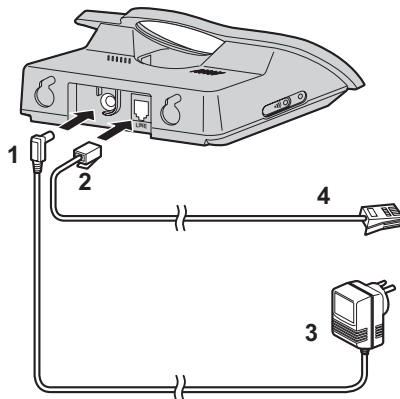
# Setting up

## ◆◆ Connection

Plug in the AC adaptor and the telephone line cord in order **1, 2, 3, 4**.



Fasten the AC adaptor cord to prevent it from being disconnected.



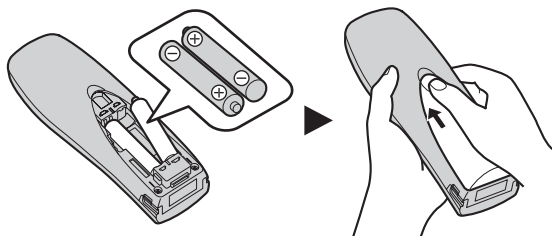
The AC adaptor must remain connected at all times (It is normal for the adaptor to feel warm during use).

- Never install telephone wiring during a lightning storm.

## ◆◆ Battery Installation

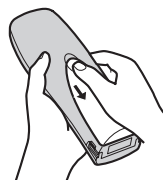
Please ensure the batteries are inserted as shown. ⊖ part should be inserted first. Close the cover as indicated by the arrow.

- When you replace the batteries, ⊕ part should be removed first.



### To replace the battery:

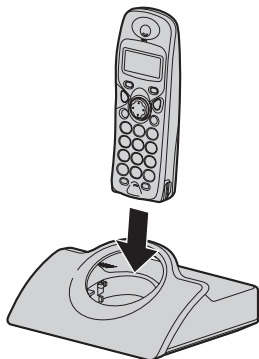
Press the notch on the cover firmly and slide it as indicated by the arrow. Replace 2 batteries and close the cover then charge the handset for about 7 hours.





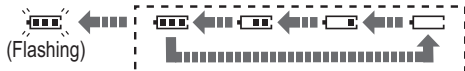
## Battery Charge

At the time of shipment, the batteries are not charged. To charge, place the handset on the base unit. **Please charge the batteries for about 7 hours before initial use.** During charging, the battery icon is as shown below.



**Fully charged**

**During charging**



Display icon	Battery strength
	High
	Medium
	Low
	Needs to be charged

The handset, when powered off will be turned on automatically when it is placed on the base unit.

In normal use, the handset and the base unit should be powered on at all times.

## Battery Life

Battery life is dependent on use and conditions but in general when using fully charged Ni-MH batteries (700 mAh):

Talk time: 10hrs approx.

Standby time: 120hrs approx.

When using Ni-Cd batteries (250 mAh):

Talk time: 4hrs approx.

Standby time: 40hrs approx.

(Times indicated are for peak performance.)

The batteries reach peak performance after several full charge/discharge cycles. The batteries cannot be overcharged unless they are repeatedly removed and replaced.







If battery life is shortened then please check that battery and charge terminals are clean.

For maximum battery life, it is recommended that the handset is not recharged until battery icon flashes




# Setting up

## ◆◆ Symbols Used in This Operating Instructions

Symbol	Meaning
	To search the desired item, press <b>UP</b> or <b>DOWN</b> .
	To select the desired item, press <b>RIGHT</b> .
 	To search and then to select the desired item, press <b>UP</b> or <b>DOWN</b> then <b>RIGHT</b> .
	To move the cursor to the right or to the left, press <b>RIGHT</b> or <b>LEFT</b> .
	To go to the next step.
" "	The words in " " indicate the words in display.


## ◆◆ Replacing the Batteries



If the  icon flashes after a few telephone calls even when the handset batteries have been fully charged, 2 batteries must be replaced.



**Charge new batteries for approximately 7 hours before initial use.**  
**(The telephone line cord must not be connected to the telephone socket at this time.)**



When replacing the batteries, ensure that the correct battery type is selected.



### Selecting the Battery Type



1   
Press **MENU**.

2    
Search/Select  
"SETTING HS".

3    
Search/Select  
"OTHER OPT".

4    
Search/Select  
"BATTERY TYPE".

5    
Search/Select  
"NI-CD" or "NI-MH".

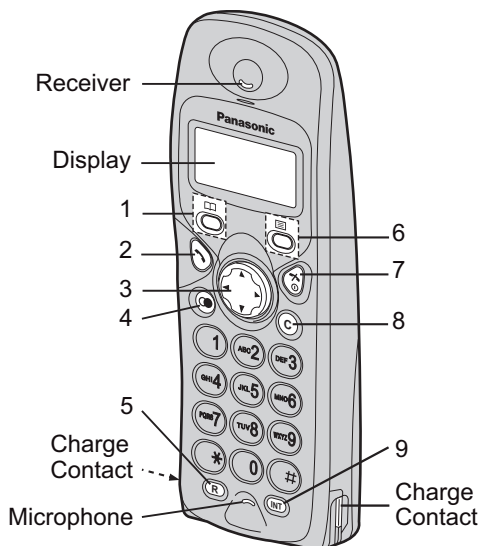
- To exit the operation, press  any time.
- When Ni-Cd batteries are fitted with the "BATTERY TYPE" setting in "NI-MH",  icon will disappear and stop charging even if the handset is on the cradle.
- Do not use non-rechargeable batteries. If non-rechargeable batteries are fitted and start charging, it may cause the leakage of the battery electrolyte.

**Please use only Panasonic HHR-4EPT(Ni-MH) or P-4NPT(Ni-Cd) batteries.**



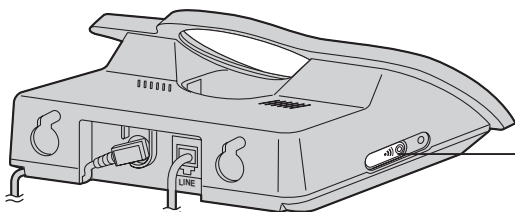
## ◆◆ Location of Controls

### Handset



- 1 - **PHONEBOOK** Button
- 2 - **TALK** Button
- 3 - **Navigator Key**
- 4 - **REDIAL/PAUSE** Button
- 5 - **RECALL** Button
- 6 - **MENU/OK** Button
- 7 - **OFF/POWER** Button
- 8 - **CLEAR** Button
- 9 - **INTERCOM** Button

### Base unit



## ◆◆ Handset Display

- Within range of a base unit
- Out of range/No registration /No power on base unit
- Paging or using the handset
- Making or answering calls
- Phonebook Mode
- In Setting Mode
- Battery strength is low.
- Battery strength is high.
- Call BAR ON (p.22)
- Direct Call ON (p.23)
- Key Lock ON (p.24)
- Ringer Volume OFF (p.20)
- Dialling Pause (p.24)

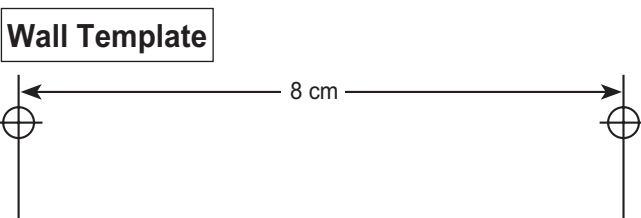
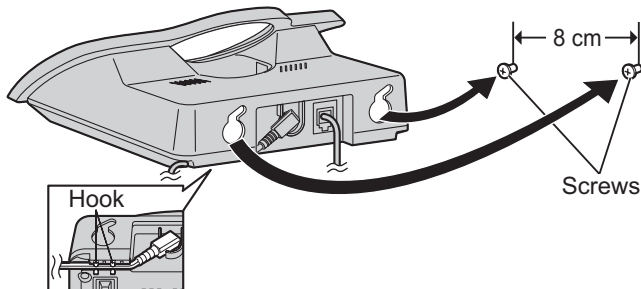


# Setting up

## ◆◆ Wall Mounting

This unit can be mounted on a wall.

- Insert screws into the wall. The centre of the screw hole should be 8 cm horizontally apart.
- Connect the AC adaptor and the telephone line cord.
- Arrange the wires as shown, then mount the unit.





# Using the Telephone

## ◆◆ Power On/Off

### Power on




Press for more than 1 second.\*1

### Power off



Press for more than 2 seconds.\*2

\*1 When  button is released, the display changes to the standby mode.

\*2 The display goes blank.

## ◆◆ Making a Call

### Pre-dialling

**1** Phone Number \*1

**2**



Press **TALK**.

### Post-dialling

**1**



Press **TALK**.

**2** Phone Number

\*1 If you need correction, press **CLEAR**. Digit is cleared to the left, then enter numbers.

## ◆◆ Answering a Call

### Terminating a Call



Press **TALK**. \*1

(During a call) ➔




Press **OFF**.

- Each ringer will start ringing with lower volume then gradually increase the volume when receiving a call.

\*1 You can also answer a call by pressing any dialling button, **INTERCOM**, **#** or **\***.

## ◆◆ Setting the Clock/Date

After a mains power failure the clock needs to be reset. Ensure that  icon is not flashing.

**1**



Press **MENU**.

**2**



Search/Select  
"SETTING BS".



"INPUT CODE"

**3**



**Time**  
➔ Enter time.  
4-digit  
(24 hour clock) \*1

**4**



Press **OK**.

**5**



➔ "INPUT CODE"  
Press **RIGHT**.

**6**




twice ➔ **Date**  
Enter day,  
month then  
year. \*2

**7**



Press **OK**.

- To exit the operation, press  any time.

\*1 For example, to set 7:15, enter 0715.

\*2 For example, to set the 16th of February, 2003, enter 160203.



# Making Calls

## ◆◆ Redialling

The last 10 numbers dialled are stored in the redial list automatically.

### Dialling with the Redial List

### Dialling the Last Number Dialed

1		2		3	
Press		Search the desired		Press	
<b>REDIAL</b> . <sup>*1</sup>		dialled item.		<b>TALK</b> .	

1		2	
Press		Press	
<b>TALK</b> .		<b>REDIAL</b> .	

### Editing the Dialed Number in the Redial List

1		2		3		The 1st digit of the desired dialed number blinks.
Press		Search/Select the		Search/Select		
<b>REDIAL</b> . <sup>*1</sup>		desired dialed item.		"EDIT CALL NO".		

4		5		AND/OR	Number	6		If you need to store a name, go to <b>Name</b> on page 15 or press <b>OK</b> .
Move		Press				Press		
cursor.		<b>CLEAR</b> . <sup>*2</sup>				<b>TALK</b> .		
						OR		
						Press <b>OK</b> 3 times		
						to store the number.		

### Clearing One/All Dialed Item(s) in the Redial List

1		2		3		4	
Press		Search/Select the		Search/Select		Search/Select	
<b>REDIAL</b> . <sup>*1</sup>		desired dialed item.		"CLEAR" or		"YES".	
				"ALL CLEAR".			

- To exit the operation, press any time.

<sup>\*1</sup> If there is no item stored in the redial list, the display shows "NO ITEM".

<sup>\*2</sup> Digits are cleared to the left of the flashing digit.

<sup>\*3</sup> Digits are added to the left of the flashing digit. If you need to clear and/or add more than one number, repeat the steps from 4.



## ◆◆ Caller ID Service

Caller ID is a service of your Network provider and will only operate if you have subscribed to this feature.

After subscribing to Caller ID, this phone will display the caller information.

If your unit is connected to a PBX or a telephone line that does not support this service, you will not be able to use it.

Caller ID does not display caller information while using the handset for an intercom call. However, the caller information will be stored to the Caller ID List.

For all local and national incoming calls put, your display will show the area code (e.g. 09 for Auckland) or the cellular prefix (e.g. 025 for Telecom Cellular) followed by the caller's telephone number. An Auckland caller's number will be displayed as 09XXXXXXX. The seven X's represent the seven digits of the caller's telephone number. A call from a 7-digit Telecom Cellular number will be displayed as 025XXXXXXX. For incoming international calls put, your display may only show the digits "0000". For business users on a Centrex line, your display will show the Centrex extension numbers in the shorter extension number format used within your company.

**Call Waiting:** Call Waiting is a service of your Network provider and will only operate if you have subscribed to this service.

You can answer the second call, keeping the first call on hold.

Please consult your Network provider for details of this service.

## ◆◆ For Using Telecom's or Another Company's Toll Services

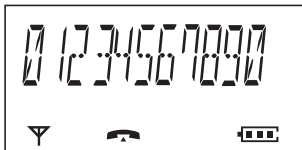
Your telephone company may charge you for a local call if the number dialled has the area code prefix included. If the charge for local call is unacceptable, only the 7-digits of the local number should be dialled from your telephone. Do not dial the "0" prefix or the area code digit.



# Caller ID

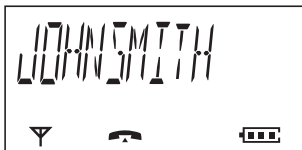
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## ◆◆ Caller ID Display



When receiving a call, the display shows its phone number.

For example, a caller whose phone number is 01234567890 has been received.



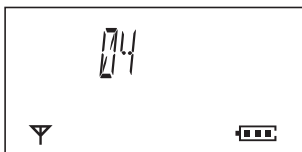
If you store a phone number with a name in the phonebook, the display shows caller's name when receiving a call.



If the caller has requested not to display his/ her information, the display shows "PRIVATE".



If the caller dialed from an area which does not provide Caller ID service, the display shows "OUT OF AREA".



When new calls have been received, the display shows the numbers of calls.

For example, 4 new calls have been received.



## ◆◆ Caller ID List









Information up to 50 different callers is stored from the most recent call to the oldest call in the caller list. When the 51st call is received, the oldest caller information is cleared. If you receive a call from the same phone number you stored with a name in the phonebook, the display will show the caller's name.

### Calling Back







<b>1</b>  Search the desired received item.*1	<b>2</b>  Press <b>TALK</b> .
---	---


### Editing the Received Number in the Caller List


The caller's telephone number, which is sent to your telephone from your local telephone exchange, includes the "0" and area code prefix. For local calls, the "0" and area code prefix can be omitted. See page 11 "For Using Telecom's or Another Company's Toll Services" for more information.

<b>1</b>   Search/Select the desired received item.*1	<b>2</b>   Search/Select "EDIT CALL NO".	➔ The 1st digit of the desired received number blinks.	<b>3</b>  Move cursor.
<b>4</b>  <b>AND/OR</b> Press <b>CLEAR</b> .*2	<b>Number</b> Edit the number.*3	<b>5</b>  Press <b>TALK</b> . <b>OR</b>  Press <b>OK</b> 3 times to store the number.	
➔ If you need to store a name, go to <b>Name</b> on page 15 or press <b>OK</b> .			

### Clearing One/All Received Item(s) in the Caller List

<b>1</b>   Search/Select the desired received item.*1	<b>2</b>   Search/Select "CLEAR" or "ALL CLEAR".	<b>3</b>   Search/Select "YES".
--	---	--

- To exit the operation, press  any time.

\*1 If there is no item stored in the caller list, the display shows "NO ITEM".  on the right edge of the display when searching the item in the caller list indicates that the item has been already shown previously.

\*2 Digits are cleared to the left of the flashing digit.

\*3 Digits are added to the left of the flashing digit. If you need to clear and/or add more than one number, repeat the steps from 3.




# Answering Calls

## ◆◆ Auto Talk

If you set Auto Talk to on, you can answer the phone by lifting the handset off the base unit.

<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>		<b>5</b>	
Press <b>MENU</b> .		Search/Select "SETTING HS".		Search/Select "OTHER OPT".		Search/Select "AUTO TALK".		Search/Select "ON" or "OFF".	

- To exit the operation, press  any time.


## ◆◆ Temporary Bell Off

When an external call is incoming, you can temporarily turn off the handset ringer. This function will not work when the handset is on the base unit or if an internal call is incoming.

	➔	
Press and hold <b>DOWN</b> for over 1 second.		

## ◆◆ Receiver Volume

During a call, press **UP** or **DOWN** to change the volume setting to LOW (0), MEDIUM (00), HIGH (000).

(During a call) ➔	
Press <b>UP</b> or <b>DOWN</b> .	

## ◆◆ Handset Locator/Paging

Using this feature, you can locate a misplaced handset by paging.





<b>1</b> Press 	on the base unit.	<b>2</b> All registered handsets ring for 1 minute.
<To stop paging>		
<b>3</b> Press 	on the base unit	OR  <sup>*1</sup> on one of the handsets.


\*1 You can also stop paging by pressing any dialling buttons, **INTERCOM**, **#** or **✖**.



You can store up to 20 caller information in the phonebook. If you received a call from the same phone number you stored with a name in the phonebook, the display will show the caller's name.

## ◆◆ Storing a Caller Information

<b>1</b>  Press <b>MENU</b> .	<b>2</b>  Select "NEW PHONE".	<b>3</b> <b>Phone Number</b> Enter phone number. (max. 24 digits)*1	<b>4</b>  Press <b>OK</b> .
<b>5</b> <b>Name</b> Enter name. (max. 9 characters)*1	<b>6</b>  Press <b>OK</b> .*2		

- To exit the operation, press  any time.











\*1 If you need to make a correction, press **RIGHT** or **LEFT** to move the cursor then clear the digit/character by pressing **CLEAR**, and/or enter digits/characters.

Digits/characters are cleared or added to the left of the flashing digit/character.

To enter digits/characters, see Character Selection below.

\*2 To continue storing another caller information, repeat the steps from **3**.

### Character Selection

Keys	Number of times key is pressed								Keys	Number of times key is pressed				
	1	2	3	4	5	6	7	8		1	2	3	4	5
	#	[	]	*	'	-	/	1		M	N	O	6	
	A	B	C	2						P	Q	R	S	7
	D	E	F	3						T	U	V	8	
	G	H	I	4						W	X	Y	Z	9
	J	K	L	5						Blank	0			










### Character Table

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y
z	1	2	3	4	5	6	7	8	9	*	0	#	-	/	[	]	,							
!	~	^	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~







# Phonebook

## Editing a Caller Information

<b>1</b> 	<b>2</b> 	<b>3</b> 	➔ The 1st digit of the desired phone number blinks.
Press <b>PHONEBOOK</b> . <sup>*1</sup>	Search/Select desired item.	Select "EDIT".	
<b>&lt;Phone Number&gt;</b>			
<b>4</b> 	<b>5</b> 	<b>AND/OR</b>	<b>6</b> 
Move cursor.	Press <b>CLEAR</b> . <sup>*2</sup>		Press <b>OK</b> .
<b>Number</b>			
Edit the phone number. <sup>*3</sup>			
<b>&lt;Name&gt;</b>			
<b>7</b> 	<b>8</b> 	<b>AND/OR</b>	<b>9</b> 
Move cursor.	Press <b>CLEAR</b> . <sup>*2</sup>		Press <b>OK</b> .
<b>Name</b>			
Edit the name. <sup>*4</sup>			

## Clearing a Caller Information

<b>1</b> 	<b>2</b> 	<b>3</b> 	<b>4</b> 
Press <b>PHONEBOOK</b> . <sup>*1</sup>	Search/Select desired item.	Search/Select "CLEAR".	Search/Select "YES". <sup>*5</sup>

## Dialling with the Phonebook

<b>1</b> 	<b>2</b> 	<b>3</b> 
Press <b>PHONEBOOK</b> . <sup>*1</sup>	Search desired item.	Press <b>TALK</b> .

- To exit the operation, press  any time.

<sup>\*1</sup> If there is no item stored in the phonebook, the display shows "NO ITEM".

<sup>\*2</sup> Digits are cleared to the left of the flashing digit.




<sup>\*3</sup> Digits are added to the left of the flashing digit. If you need to clear or add more than one digit, repeat the steps from **4**.


<sup>\*4</sup> Characters are added to the left of the flashing character. If you need to clear or add more than one character, repeat the steps from **7**.

<sup>\*5</sup> To continue clearing another caller information, repeat the steps from **2**.


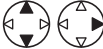
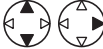






## ◆◆ Storing the Phone Number into the Phonebook When Pre-dialling

<b>1</b> Phone Number *1	<b>2</b>  Press <b>OK</b> to store the number.	<b>3</b>  Press <b>OK</b> twice.	<b>4</b> Name Enter name.*2
<b>5</b>  Press <b>OK</b> .			

- To exit the operation, press  any time.
- \*1 If you need to make a correction, press **CLEAR**. Digit is cleared to the left, then enter numbers.
- \*2 To enter characters, see Character Selection on page 15.

## ◆◆ Storing the Number from the Redial/Caller List into the Phonebook

<b>1</b>	 Press <b>REDIAL</b> . *1	 Search/Select the desired dialled number.	<b>2</b>	 Search/Select "SAVE TEL NO".*2	<b>3</b>	 Press <b>OK</b> .
	<b>OR</b>  Search/Select the desired received number.*1					
<b>4</b>	If you need to store a name, go to <b>Name</b> on page 15.					
	<b>OR</b>  Press <b>OK</b> .					

- To exit the operation, press  any time.
- \*1 If there is no item stored in the redial/caller list, the display shows "NO ITEM".
- \*2 If you need to make a correction, press **RIGHT** or **LEFT** to move cursor then clear a character by pressing **CLEAR**, and/or enter digits. Digits are cleared or added to the left of the flashing digit.












# Phonebook


## ◆◆ Hot Key

You can assign the dialling buttons 1 through 9 as hot keys. You can choose 9 phone numbers from the phonebook.

### Registering a Phone Number as a Hot Key


<b>1</b>  Press <b>PHONEBOOK</b> . <sup>*1</sup>	<b>2</b>   Search/Select desired item.	<b>3</b>   Search/Select "HOT KEY REG".	<b>4</b>   Search/Select desired dialling button number. <sup>*2</sup>
<b>5</b>   Search/Select "YES".			

### Dialling with Hot Key

<b>1</b> Press and hold the dialling button registered as a hot key.	<b>2</b>  Press <b>TALK</b> .
--	---

### Clearing the Hot Key Registration

<b>1</b> Press and hold the dialling button registered as a hot key.	<b>2</b>  Press <b>RIGHT</b> .	<b>3</b>  Select "CLEAR".	<b>4</b>   Search/Select "YES". <sup>*3</sup>
--	--	---	--

- To exit the operation, press  any time.

<sup>\*1</sup> If there is no item stored in the phonebook, the display shows "NO ITEM".

<sup>\*2</sup> The number is flashing if the dialling button is already assigned as a hot key.

<sup>\*3</sup> Phonebook registration will be remained even hot key registration is cleared.






## ◆◆ TIME ALARM : Time Alarm

**Before programming, please follow steps 1 to 3.**



You must set the clock before setting the time alarm.


- 1  Press **MENU**.
- 2  Search/Select  
"SETTING HS".
- 3  Search/Select  
"TIME ALARM".

### Setting Alarm Time

- 4  Search/Select  
"SET TIME".
- 5 **Time**  
Enter time.  
4-digit  
(24 hour clock).
- 6  Press **OK**.
- 7  Search/Select  
"OFF",  
"ONCE" or  
"REPEAT DAILY".

### Setting Time Alarm On/Off

- 4  Search/Select  
"SET ALARM".
- 5  Search/Select  
"OFF",  
"ONCE" or  
"REPEAT DAILY".

- To exit the operation, press  any time.

**To stop time alarm:** Time alarm will sound for 3 minutes. When the alarm sounds, press any dialling buttons or key. Alarm stops and display returns to the standby mode.

If "ONCE" is selected, the setting is turned off. When in talk or intercom mode, the alarm will not sound until the call is ended.



# Handset Settings

##



## ◆◆ : Tone Option






You can set the following sounds on or off.


**Key Tone:** Key tone will sound when you press any key, and a confirmation tone and an error tone will be heard during operation.

**Call Waiting Tone:** Call waiting tone will sound when an incoming external call is received during an intercom call.

**Range Warning Alarm:** Alarm will sound when you move out of range of a base unit.






**Battery Low Alarm:** Alarm will sound when the batteries need to be charged.


<b>1</b>  Press <b>MENU</b> .	<b>2</b>  Search/Select "SETTING HS".	<b>3</b>  Search/Select "TONE OPT".	<b>4</b>  Search/Select "KEY TONE", "CALL WAITING", "RANGE ALARM" or "BATTERY LOW".
<b>5</b>  Search/Select "ON" or "OFF".			

- To exit the operation, press  any time.

## ◆◆ : Display Option

### Selecting the Standby Mode Display

<b>1</b>  Press <b>MENU</b> .	<b>2</b>  Search/Select "SETTING HS".	<b>3</b>  Search/Select "DISPLAY OPT".	<b>4</b>  Search/Select "STANDBY MODE".
<b>5</b>  Search/Select "CLOCK", *1 "OFF", "BS NO" (Base unit number) or "HS NO" (Handset number).			

- To exit the operation, press  any time.

\*1 Time will only be displayed if the clock has been set. When new calls have been received, the display shows the number of new call.





# Handset Settings

Before programming, please follow steps 1 to 3.

- 1  Press **MENU**.
- 2  Search/Select "SETTING HS".
- 3  Search/Select "DISPLAY OPT".


## Selecting the Talk Mode Display

Even if you select "PHONE NO", the other party's phone number will not appear on your display when you receive calls without subscribing to a Caller ID service.

- 4  Search/Select "TALK MODE".
- 5  Search/Select "TALK TIME" (Length of the call) or "PHONE NO" (Phone number).

## Selecting the Display Language

- 4  Search/Select "LANGUAGE".
- 5  Search/Select desired language.\*1

- To exit the operation, press  any time.






\*1 You can select one of 10 languages. If you set a language you cannot read, reset the handset to its initial settings.


Press **MENU**  $\blacktriangleright$  **DOWN**  $\blacktriangleright$  **RIGHT**  $\blacktriangleright$  **UP**  $\blacktriangleright$  **RIGHT**  $\blacktriangleright$  **4-digit Handset PIN**  $\blacktriangleright$  **UP**  $\blacktriangleright$  **OK**  
All handset setting will be reset to their initial settings (p.27), however, the Phonebook data will be saved.

## : Call Option


### Call BAR On/Off

Bars all calls except emergency and internal calls.

- 1  Press **MENU**.
- 2  Search/Select "SETTING HS".
- 3  Search/Select "CALL OPT".
- 4  Search/Select "CALL BAR".
- 5 **4-digit Handset PIN**\*1
- 6  Search/Select "ON" or "OFF".\*2

- To exit the operation, press  any time.

\*1 The factory preset is 0000.

\*2 If "ON" is selected,  is displayed.






# Handset Settings

Before programming, please follow steps 1 to 3.

- 1  Press **MENU**.
- 2   Search/Select  
"SETTING HS".
- 3   Search/Select  
"CALL OPT".


## Setting the Direct Call Number


After a direct call number has been set and on, you can dial the direct call number only by pressing **TALK**. Incoming calls are accepted.

- 4   Search/Select  
"DIRECT NO".
- 5 **Phone Number**  
Enter the direct call number. (max. 24 digits)
- 6  Press **OK** 3 times.\*1

## Setting the Direct Call On/Off

- 4   Search/Select  
"SET DIRECT".
- 5   Search/Select  
"ON" or "OFF".\*1








- To exit the operation, press  any time.


\*1 If "ON" is selected,  is displayed.

## : Other Options

### Changing Handset PIN

The factory preset is 0000. Once you have programmed the handset PIN, you cannot confirm it. We recommend you write down the handset PIN. If you forget it, please consult your nearest Panasonic Service Centre.

- 1  Press **MENU**.
- 2   Search/Select  
"SETTING HS".
- 3   Search/Select  
"OTHER OPT".
- 4   Search/Select  
"HSPIN CHANGE".
- 5 **Current 4-digit Handset PIN**
- 6 **New 4-digit Handset PIN**
- 7 **New 4-digit Handset PIN again to verify**

- To exit the operation, press  any time.



# Handset Settings

## ◆◆ Key Lock

You can lock the handset dialling buttons. Only incoming calls are accepted while the key lock is on. The key lock is cancelled if the handset is turned off.

**When the key lock is on, emergency calls cannot be made until key lock is cancelled.**

### Key Lock On




Press **OK** for more than 2 seconds.

### Key Lock Off



Press **OK** for more than 2 seconds.

-  is displayed and all dialling buttons are locked.


## ◆◆ Recall Feature

**RECALL** is used to access special telephone services. Contact your Network provider for details. If your unit is connected to a PBX, pressing **RECALL** allows you to access some features of your host PBX such as transferring an extension call.


## ◆◆ Dialling Pause (for PBX line/long distance service users)

A dialling pause is used when a pause in the dialling of the phone number is necessary using a PBX or accessing a long distance service.

For example, when 9 (line access number) is dialled followed by a pause to access an outside line through a PBX:

1		2		3 Phone Number	4	
Press <b>PAUSE</b> . *1				Press <b>TALK</b> .		

- Entering a pause prevents misdialling when you redial or dial a stored number.
- Pressing **PAUSE** once creates one pause. To extend the pause requirement time, press **PAUSE** accordingly.

\*1  is displayed on the LCD.




# Base Unit Settings

Before programming, please follow steps 1 to 2.

- 1  Press **MENU**.
- 2  Search/Select "SETTING BS".





## Changing Base Unit PIN

The factory preset is 0000. **Once you have programmed the base unit PIN, you cannot confirm it. We recommend you write down the base unit PIN. If you forget it, please consult your nearest Panasonic Service Centre.**




- 3  4 Current 4-digit Base Unit PIN 5 New 4-digit Base Unit PIN
- 6 New 4-digit Base Unit PIN again to verify


## Call Restriction

You can restrict selected handset(s) from dialling selected phone numbers. You can assign up to 10 call restriction numbers (up to 8 digits). If you dial a restricted number, the call does not connect and restricted number flashes.

- 3  4 4-digit Base Unit PIN\*1
- 5 Handset Number  
Select desired handset.\*2
- 6  Press **RIGHT**.
- 7 Phone Number  
Enter phone number to be restricted.  
(up to 8 digits)
- 8  Press **RIGHT**.
- 9  Press **OFF**.  
**OR**  
To continue entering call restriction numbers, repeat the steps 7 to 8.  
(up to 10 numbers)

## Cancelling Call Restricted Handset(s)

- 3  4 4-digit Base Unit PIN\*1
- 5 Handset Number  
Select desired handset.\*3
- 6  Press **RIGHT**.
- 7  Press **OFF**.

- To exit the operation, press  any time.

\*1 The factory preset is 0000.

\*2 The selected handset number flashes.

\*3 The selected handset(s) will stop flashing.





# Base Unit Settings


Before programming, please follow steps 1 to 2.


- 1  Press **MENU**.
- 2  Search/Select "SETTING BS".

## Cancelling Call Restricted Number


3  4 4-digit Base Unit PIN\*1

5  Press **RIGHT** repeatedly until desired call restriction number is displayed.

6  Press **CLEAR**.


7  Press **RIGHT**.



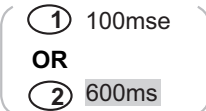
8 <to continue> OR <to finish>  
Repeat the steps 5 to 7.


 Press **OFF**.

## Selecting the Flash Timing

You can select the flash timing, 100 msec (milliseconds), or 600 msec depending on your PBX requirements.


3  4 4-digit Base Unit PIN\*1


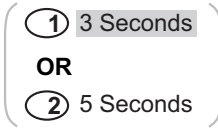
5  6  7 


8  Press **OK**.


## Pause Timing

You can set the pause timing to 3 or 5 seconds, depending on your PBX requirements.

3  4 4-digit Base Unit PIN\*1

5  6 

7  Press **OK**.

- To exit the operation, press  any time.
- The factory preset is in shade.

\*1 The factory preset is 0000.




##





# Initial Settings

## ◆◆ Reset Base Unit Settings


If the base unit is reset, the Caller ID list will clear.


**1**   
Press **MENU**.

**2**   
Search/Select  
"SETTING BS".

**3**   
"INPUT CODE"

**4** 4-digit Base Unit PIN\*1

**5**   
Press **OK**.

- To exit the operation, press  any time.

\*1 The factory preset is 0000.

### Base Unit Initial Settings

Function	Initial Setting
Ringer Mode	All Handsets
Number of Rings	3
Flash Timing	600 msec
Pause Timing	3 seconds
Call Restricted Handsets	All Clear
Call Restriction Numbers	All Clear
4-Digit Base Unit PIN	0000




# Multi-unit User Operation










## ◆◆ REGISTRATION : Handset Registration to a Base Unit


### Handset Registration

The handset supplied with the base unit is already registered. If an optional handset is purchased, it must be registered. Additional **KX-A142NZ** handsets are available to purchase separately. Up to 6 handsets can be registered to a single base unit. Using additional handsets allows you to have an intercom call while simultaneously conducting a call to an outside line.

Handset must be registered within 1 minute after pressing **PAGE** button. If over 1 minute, press  then start over again.

**Charge the optional handset batteries for 7 hours before initial use.**

<b>1</b>  Press <b>MENU</b> .	<b>2</b>  Search/Select "SETTING HS".	<b>3</b>  Search/Select "REGISTRATION".	◆ "REGISTER HS"
<b>4</b>  Press <b>RIGHT</b> .	<b>5 Press and hold  on the Base Unit (for about 5 seconds) until the green indicator flashes.</b> • If all registered handsets start ringing (Paging), press  to stop paging then start over again.		
<b>6</b>  Search/Select desired base unit number available to register the handset.	<b>7 4-digit Base Unit PIN after "BS PIN" is displayed.*1</b>	<b>8</b>  Press <b>OK</b> .	◆ When a handset is registered successfully, a confirmation tone sounds and "Y"  icon lights.

- To exit the operation, press  any time.

\*1 The factory preset is 0000.








**KX-A142NZ Handset:** You can see the illustrations for answering system feature on additional KX-A142NZ handset body, but KX-TCD410NZ does not have an answering system feature. Therefore, the answering system does not work even if KX-A142NZ handset has been registered to KX-TCD410NZ.



# Multi-unit User Operation





## Cancelling a Base Unit


You can cancel any base unit that your handset is registered to.

<b>1</b>  Press <b>MENU</b> .	<b>2</b>  Search/Select "SETTING HS".	<b>3</b>  Search/Select "REGISTRATION".	<b>4</b>  Search/Select "CANCEL BS".
<b>5</b> 4-digit Handset PIN*1	<b>6</b>  Search/Select desired base unit number to cancel.*2	<b>7</b>  Press <b>RIGHT</b> .	<b>8</b>  Search/Select "YES" or "NO".

## Cancelling a Handset

Each handset can cancel itself or another handset.

<b>1</b>  Press <b>MENU</b> .	<b>2</b>  Search/Select "SETTING BS".	<b>3</b>  ↗ "INPUT CODE"
<b>4</b> 4-digit Base Unit PIN*1	<b>5</b> Handset Number Select desired handset.*3	<b>6</b>  Press <b>OK</b> . Please wait until "SETTING BS" is displayed.

- To exit the operation, press  any time.

\*1 The factory preset is 0000.





\*2 The selected base unit number flashes.

\*3 The selected handset number flashes.





# Multi-unit User Operation



Before programming, please follow steps 1 to 4.

- 1  Press **MENU**.      2  Search/Select "SETTING BS".      3  "INPUT CODE"      4  4-digit Base Unit PIN\*1

## Ringer Mode Selection; Setting the All Handsets Mode



- 5  "All handsets" mode.      6  Press **OK**.


## Setting the Selected Handsets Mode

- 5  "Selected handsets" mode.      6 Handset Numbers\*2      7  Press **OK**.  
Press desired handset numbers.

## Setting the Selected then All Handsets Mode

The specific handset(s) will ring for a selected number of rings.  
If not answered, all handsets will ring.

- 5  "Selected then all handsets" mode.      6 Handset Numbers\*2      7  Press **RIGHT**.  
Press desired handset numbers.
- 8 Number of Rings\*3      9  Press **OK**.  
Select how many times it rings. (up to 6 rings)

- To exit the operation, press  any time.
- The factory preset is in shade.

\*1 The factory preset is 0000.

\*2 The selected handset number flashes.





\*3 Press dialling button  through  to enter the number of rings.




# Multi-unit User Operation

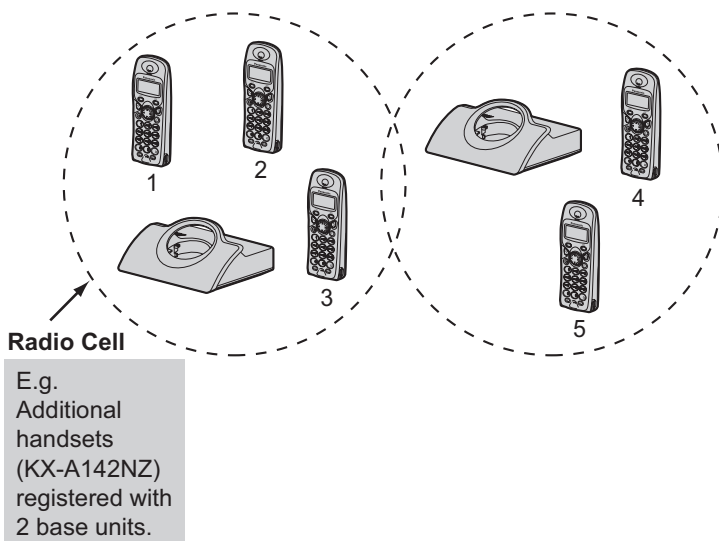
## ◆◆ SELECT BS : Base Unit Selection

When Automatic Base Unit Access is selected, if you move outside of the radio range of the current base unit the handset automatically searches for other registered bases. When a specified base unit is selected, the handset will access that base unit only. Calls (both incoming and outgoing) can be conducted only via the selected base unit, even if the radio cells overlap with neighbouring base units.

<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>	
Press <b>MENU</b> .		Search/Select "SETTING HS".		Search/Select "SELECT BS".		Search/Select "AUTO" or specific base unit number.	

- To exit the operation, press  any time.

**Operating Additional Base Units:** You can register and operate your handset with up to 4 base units. Each base unit forms 1 radio cell. If the individual bases are linked to the same telephone line then you can extend the operating range of the system by positioning the bases so that the two radio cells overlap. If the handset is set to AUTO base selection, then in standby mode the handset will automatically swap to the second base if the range on the first base is exceeded. It is not possible to transfer calls between bases (only between handsets linked to the same base unit).




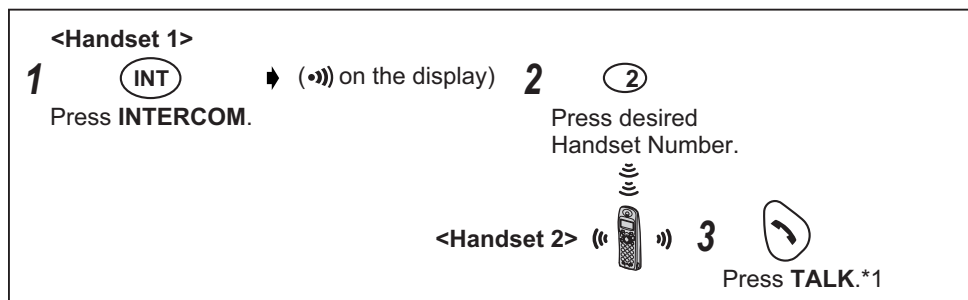
**Note:** Calls are disconnected when the handset moves from one radio cell to another.



## Intercom between Handsets


You can use your handsets as a 2-way intercom.

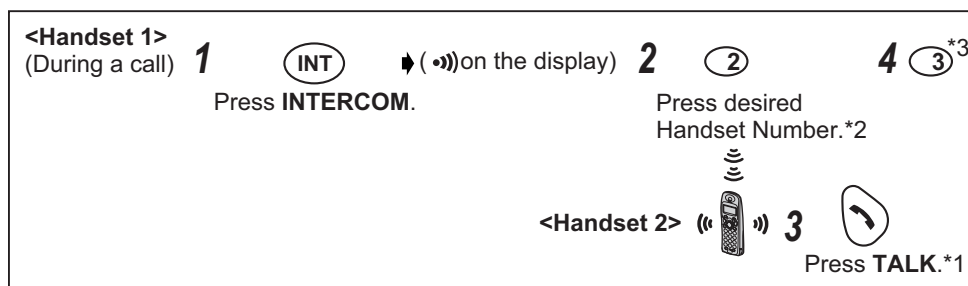
For example, when Handset 1 calls Handset 2. To hang up, press .




- Intercom calls can be conducted within the radio cell of the current base unit, but not with units in neighbouring radio areas.

## Transferring a Call to Another Handset/Conference Call


The Intercom can be used during a call to transfer an external call between handsets that are registered to the same base unit. For example, when handset 1 transfers a call to Handset 2. To hang up, press .



<sup>\*1</sup> You can also press any dialling button, **INTERCOM**, **#** or **\***.

<sup>\*2</sup> If you press  after pressing desired handset number, a call can be transferred to another handset without speaking to another handset.

If the transferred call is not answered within 30 seconds, Handset 1 will ring again.

<sup>\*3</sup> When Handset 2 answers a call transferred, press  to complete a call transfer or press dialling button **3** to establish the conference call.




# Before Requesting Help

If you experience any problems with the normal use of your apparatus, you should unplug it from the telephone outlet and connect a known working telephone in its place. If the known working telephone still has problems, then please contact the customer service department of your Network provider.

If it operates correctly, then the problem is likely to be a fault in your apparatus.



In this case, contact your supplier for advice. Your Network provider may charge you if they attend a service call that is not due to apparatus supplied by them.

Turn the power OFF then ON (Handset)/Disconnect then connect the AC adaptor (Base unit)

Problem	Possible cause	Solution
NO LCD display in handset.	<ul style="list-style-type: none"><li>• Handset not turned on.</li></ul>	<ul style="list-style-type: none"><li>• Turn on power (p.9).</li></ul>
Handset will not turn on.	<ul style="list-style-type: none"><li>• Batteries not inserted.</li><li>• Batteries not charged.</li></ul>	<ul style="list-style-type: none"><li>• Insert the 2 rechargeable batteries supplied (p.4).</li><li>• Place handset in base and connect AC adaptor to base and AC outlet (full charge period 7 hrs).</li></ul>
Batteries charge icon not counting up.	<ul style="list-style-type: none"><li>• Dirty charge contact.</li><li>• Base not powered up.</li></ul>	<ul style="list-style-type: none"><li>• Clean charge/battery contact and retry charge.</li><li>• Connect AC adaptor to base unit and AC outlet.</li></ul>
📶 icon flashes.	<ul style="list-style-type: none"><li>• Handset not registered to base.</li><li>• Handset out of range of base.</li><li>• No power into base unit.</li></ul>	<ul style="list-style-type: none"><li>• Register handset to base.</li><li>• Move handset closer to base.</li><li>• Connect AC adaptor to base unit and AC outlet.</li></ul>
Handset busy tone heard when  is pressed.	<ul style="list-style-type: none"><li>• Handset out of range of base.</li><li>• Another handset in use.</li></ul>	<ul style="list-style-type: none"><li>• Move handset closer to base.</li><li>• Wait for the other user to complete call.</li></ul>
No dial tone.	<ul style="list-style-type: none"><li>• Telephone line not connected.</li></ul>	<ul style="list-style-type: none"><li>• Insert telephone cord to network.</li><li>• Turn power OFF then ON.</li></ul>
Cannot dial out.	<ul style="list-style-type: none"><li>• Call BAR set.</li><li>• Particular dialled number is restricted.</li><li>• Key lock mode ON.</li></ul>	<ul style="list-style-type: none"><li>• Turn feature off.</li><li>• Remove number from call restricted list.</li><li>• Turn key lock OFF.</li></ul>



# Before Requesting Help

Problem	Possible cause	Solution
Handset will not ring.	<ul style="list-style-type: none"><li>• Ringer switched off.</li></ul>	<ul style="list-style-type: none"><li>• Set ringer to one of 6 volume levels. (see "Handset Settings".)</li></ul>
Last number redial does not work.	<ul style="list-style-type: none"><li>• Number exceeded 24 digits.</li></ul>	<ul style="list-style-type: none"><li>• Redial manually.</li></ul>
No Caller ID number displayed.	<ul style="list-style-type: none"><li>• Service not supplied.</li><li>• Caller has withheld info.</li></ul>	<ul style="list-style-type: none"><li>• Caller ID service must be arranged with Network provider.</li></ul>
 icon flashes.	<ul style="list-style-type: none"><li>• Battery low.</li></ul>	<ul style="list-style-type: none"><li>• Recharge batteries.</li></ul>
 icon is disappeared.	<ul style="list-style-type: none"><li>• Wrong battery type selected.</li></ul>	<ul style="list-style-type: none"><li>• Set the correct battery type.</li></ul>
Cannot register handset to base.	<ul style="list-style-type: none"><li>• Max. number of bases already registered to handset.</li><li>• Max. number of handsets already registered to base unit.</li><li>• Wrong PIN number entered (Default 0000).</li><li>• Electrical noise in local area.</li></ul>	<ul style="list-style-type: none"><li>• Delete unused base registrations from handset.</li><li>• Delete unused handset registrations from base.</li><li>• If PIN number is lost, contact the Panasonic Service Centre.</li><li>• Move base/handset away from sources of electrical noise (e.g. TV, radio).</li></ul>



# Technical Information

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## Specifications:

<b>Standard:</b>	DECT=( <u>D</u> igital <u>E</u> nhanced <u>C</u> ordless <u>T</u> elecommunications) GAP=( <u>G</u> eneric <u>A</u> ccess <u>P</u> rofile)
<b>Number of channels:</b>	120 Duplex Channels
<b>Frequency range:</b>	1.88 GHz to 1.9 GHz
<b>Duplex procedure:</b>	TDMA (Time Division Multiple Access)
<b>Channel spacing:</b>	1728 kHz
<b>Bit rate:</b>	1152 kbit/s
<b>Modulation:</b>	GFSK
<b>RF Transmission Power:</b>	approx. 250 mW
<b>Voice coding:</b>	ADPCM 32 kbit/s
<b>Power source:</b>	AC Adaptor 220 - 240 V, 50 Hz
<b>Power consumption, base unit:</b>	5 VA
<b>Operating conditions:</b>	5 - 40 °C, 20 - 80 % relative air humidity (dry)
<b>Dimensions, Base Unit:</b>	About (58 mm x 128 mm x 105 mm) x 170 g
<b>Dimensions, Handset:</b>	About (143 mm x 48 mm x 32 mm) x 120 g

- Specifications are subject to change.
- The illustrations used in this manual may differ slightly from the original device.

## Connections:

The unit will not work during a power failure. We recommend you connect a standard telephone on the same line for power protection.



<b>AC Adaptor</b> .....	2, 4	<b>Handset</b>	
<b>Accessories</b> .....	2	Display .....	7
<b>Answering Calls</b> .....	14	Initial Settings .....	27
<b>Auto Talk</b> .....	14	Locator .....	14
<b>Base Unit</b>		Paging .....	14
Initial Settings .....	28	PIN .....	23
PIN .....	25	Registration .....	29
Reset .....	28	Reset .....	27
Selection .....	32	Ringer .....	20
<b>Battery</b>		<b>Intercom</b> .....	33
Caution .....	3	<b>Key</b>	
Charge .....	5	Lock .....	24
Installation .....	4	Tone .....	21
Life .....	5	<b>Making Calls</b>	
<b>Battery Low Alarm</b> .....	21	Redialling .....	10
<b>Call Restriction</b>		with the Phonebook .....	16
Cancelling Call Restricted		<b>Phonebook</b>	
Handset(s) .....	25	Hot Key .....	18
Cancelling Call Restricted Number ...	26	Storing .....	15
<b>Call Waiting</b> .....	11	<b>Power On/Off</b> .....	9
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**For your future reference**

Serial No.

Date of purchase

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(found on the bottom of the unit)

Name and address of dealer

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Attach or keep original receipt to assist with any repair under warranty.

Technical specifications are subject to change.

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